

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	for 0764, 739 SERIAL NO. (08/895,612)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
GA	A	5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
GT	B	5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
GC	C	5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
GD	D	4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
GE	E	5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
GF	F	5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
GG	G	5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
GH	H	4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
GI	I	5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
GJ	J	4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
GK	K	5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
GL	L	5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
GM	M	4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
GN	N	4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
GO	O	5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
GA							YES	NO
GT	P	PCT/US95/10899	Mar. 21, 1996	PCT			X	
GC	Q	PCT/US95/04329	Oct. 26, 1995	PCT			X	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
	T	Westlaw Dialog Search
GU	U	R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990)

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S. Cangialosi

DATE CONSIDERED

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	Ser 097764, 739 SERIAL NO. (08/895,612)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
GR	A	4,811,365	Mar 7, 1989	Manno	375	107	Nov 7, 1986
GR	B	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
GR	C	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
GR	D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
GR	E	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
GR	F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
GR	G	5,390,166	Feb 14, 1995	Rohani, et al.	370	335	Jul 14, 1993
GR	H	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
GR	I	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
GR	J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
GR	K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
GR	L	4,635,274	Jan 6, 1987	Kubota	375	1	Apr 25, 1985
GR	M	5,463,660	Oct. 31, 1995	Fukasawa, et al.	375	205	Aug. 3, 1994
GR	N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
GR	O	5,414,699	May 9, 1995	Lee	370	18	Sep. 27, 1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER INITIAL		
GR	T	R. Lupas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
gr	A	5,345,472	Sep. 6, 1994	Lee	375	1	Aug. 2, 1993
gr	B	5,297,162	Mar. 22, 1994	Lee, et al.	375	1	Jun. 4, 1993
gr	C	5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
gr	D	5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
gr	E	5,416,797	May 16, 1995	Gilhousen, et al.	375	705	Jan. 24, 1992
gr	F	4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
gr	G	4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
gr	H	5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
gr	I	5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
gr	J	4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
gr	K	5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
gr	L	4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
gr	M	5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
gr	N	5,442,625	Aug. 15, 1995	Gitlin, et al.	370	18	May 13, 1994
gr	O	5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
gr	P	4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
gr	Q	5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
gr	R	5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
gr	S	5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
gr	T	5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
gr	U	5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
gr	V	5,309,474	May 3, 1994	Gilhousen, et al.	375	1	Mar. 27, 1992
gr	W	5,280,472	Jan. 18, 1994	Gilhousen, et al.	370	18	Mar. 9, 1992
gr	X	5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
gr	Y	5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
gr	Z	5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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SHEET 4 OF 4

FORM PTO-1449
(Rev. 2-32)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
TER-002.3PSERIAL NO.
08/895,612INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
RAKIB

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 16, 1997GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>SM</i>	A	4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
<i>SM</i>	B	5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
<i>SM</i>	C	5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
<i>SM</i>	D	5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
<i>SM</i>	E	5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
<i>SM</i>	F	5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
<i>SM</i>	G	5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 68/091,764, 739 (08/684,243)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SA	A	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
SA	B	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
SA	C	4,894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
SA	D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
SA	E	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
SA	F	5,133,079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
SA	G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
SA	H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10, 1991
SA	I	5,247,347	Sep. 21, 1993	Litteral, et al.	358	85	Sep. 27, 1991
SA	J	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	For 09/764, 739 SERIAL NO. (08/684,243)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
gr	A	5,408,465	Apr. 18, 1995	Gusella, et al.	370	17	Jun. 21, 1993
gr	B	5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 6, 1994
gr	C	5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
gr	D	5,572,528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
gr	E	5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
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EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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gr	K	EP 0 767 544 A2	Apr. 9, 1997	Europe	H04B	1/707	X	
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FORM PTO-1449
(Rev. 2-32)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
TER-002.2PSERIAL NO.
08/684,243INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 19, 1996GROUP
2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SM	A	5,499,236	Mar 12, 1996	Giallorenzi, et al.	370	18	Aug 16, 1994
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	For 09/764,739 SERIAL NO. (08/684,243]
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SH	A	5,751,739	May 12, 1998	Seshadri, et al.	371	43	Apr. 29, 1994
GP	B	4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
GC	C	5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
GM	D	5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
GO	E	5,712,982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
GL	F	5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
GC	G	5,761,198	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER S. Cangialosi | 03/05 DATE CONSIDERED

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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	for 09/784,739 SERIAL NO. [08/684,243]
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ga	A	5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991
ga	B	5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991
ga	C	5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990
ga	D	5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991
ga	E	5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996
ga	F	5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997
ga	G	5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994
ga	H	5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994
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EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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82	S	"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., <i>IEICE Transactions on Communications</i> , vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 9, 1998	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SA	A	5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994
SA	B	5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994
GA	C	5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994
GA	D	5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995
SA	E	5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994
GA	F	5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995
GA	G	5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995
GA	H	5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P D4	SERIAL NO. 09/759,774
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 1/12/01	GROUP 2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
SA	S	Nee Van R.D.J., "Timing Aspects of Synchronous CDMA" <i>IEEE International Symposium on Personal, Indoor and Mobile Radio Communications</i> , XX, XX, 1994, pages 439-443, XP000619815 Pages 439-440.
Se	T	Esmailzadeh R., et al., "Quasi-Synchronous Time Division Duplex CDMA" <i>Proceedings of the Global Telecommunications Conference (Globecom)</i> , US, New York, IEEE, 28 November 1994 (1994-11-28), pages 1637-1641, XP000488805, ISBN: 0-7803-1821-8 Pages 1637 1639.
	U	

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S. Cagliosi

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